CLAIMS

1. Device for obtaining a high-power homogenous directive collimated beam particularly for lighting scenes, said device having a high-brightness matrix including a plurality of point sources and at least two optical fibers, characterized in that the number of optical fibers is less than the number of sources and in that the first end of these fibers is located in the vicinity of and opposite said high-brightness array sources, the numerical aperture of said end of these optical fibers being greater than the numerical aperture of said sources.

2. Device according to Claim 1, characterized in that the fiber is made of plastic.

3. Device according to claim 2, characterized in that the fiber is made of thermoformable plastic.

4. Device according to Claim 1, characterized in that the fiber has a diameter that is greater than the height of the emitting surface.

5. Device according to Claim 1, characterized in that the fiber has a thin emitter, namely an emitter whose thickness is less than a few tens of microns.

6. Device according to Claim 1, characterized in that it has at least one collimating lens disposed at the second end of the fiber.

7. Device according to Claim 1, characterized in that the point sources are comprised of laser sources.

8. Device according to Claim 7, characterized in that the point sources are comprised of laser diodes.

9. Collimation method for a high-brightness array having a plurality of sources, characterized in that it consists of disposing the first end of an optical fiber opposite the emissive face of said array and in the vicinity of the latter, the numerical aperture of said end of said optical fiber being greater than the numerical aperture of said sources.

10. Method according to Claim 9, characterized in that it includes a forming step to adapt the shape of said first fiber end to the geometry of said array.